

19990419.qrp v01_n431.qrl.990419

Date: Mon, 19 Apr 1999 19:03:47 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1431

QRP-L Digest 1431

Topics covered in this issue include:

- 1) [38452] Switching PS @ no load
by "Ed Tanton" <n4xy@att.net>
- 2) [38453] ATTN: Jim Kortge
by tom whalen <wb5qyt@eFortress.com>
- 3) [38454] Re: Switching PS @ no load
by Hank Kohl K8DD <k8dd@tir.com>
- 4) [38455] E-Mail Question
by mjfitz@uswest.net
- 5) [38456] FS: OHR400/KC2
by Paul Erickson <paule@sfu.ca>
- 6) [38457] FS/Trade: TM-241A for 2M HT
by wb2vuo@juno.com
- 7) [38458] NE QRP visit
by PDouglas12@aol.com
- 8) [38459] Stuff what ain't supposed to happen & a DX contact
by Nils R Young <nilsbull@juno.com>
- 9) [38460] Re: FS: GPS/HT's/HTX-100
by wb2vuo@juno.com
- 10) [38461] Spring Bouquet Log
by Ken La Rose <kenlar@csolve.net>
- 11) [38462] Switching Regulator Power Supplies
by SMurph555@aol.com
- 12) [38463] Thanks to all that set me straight
by "Frank" <ke6vhm@earthlink.net>
- 13) [38464] QRP...well sorta...yup, I think so...
by KB90CE@aol.com
- 14) [38465] WTB: IC-706 or Alinco DX-70
by "George Heron" <n2apb@erols.com>
- 15) [38466] RE: Fw: PSK31
by "John L. Sielke" <n4js@pobox.com>
- 16) [38467] Tried a K2...
by sda <sda@bellsouth.net>
- 17) [38468] Little Rock Hamfest
by Jay Bromley <w5jay@alltel.net>
- 18) [38469] Re: Palm Logging
by Jess Gypin <jessqrp@concentric.net>
- 19) [38470] Re: QRPTTF Newbie Questions

by Joe Gervais <vole@primenet.com>
20) [38471] QRPTTF Op Hit List
by Joe Gervais <vole@primenet.com>
21) [38472] Re:Line Length-Thanks!
by mjfitz@uswest.net
22) [38473] Re: QRP...well sorta...yup, I think so...
by Jim <w7ls@blarg.net>
23) [38474] Re: FS: K-2, already built DO NOT SEND MONEY
by "David Reid" <dareid@Synopsys.COM>
24) [38475] Re: FS: K-2, already built DO NOT SEND MONEY
by David Fifield <fifield@pacbell.net>
25) [38476] Re: FS: K-2, already built DO NOT SEND MONEY
by "David Reid" <dareid@Synopsys.COM>
26) [38477] a happy story, if ya like that kinda thing
by "David Reid" <dareid@Synopsys.COM>
27) [38478] QRPTTF
by "Francis Callahan" <colcal@srv.net>
28) [38479] VFO tuning in the NC 20
by "C.Lamar Derk" <n3at@enter.net>
29) [38480] GPS38 is gone...
by wb2vuo@juno.com
30) [38481] Re: Regenerative Receiver References
by Bruce Kizerian <kizerian@ced.utah.edu>
31) [38482] Re: Resistive Antenna Bridge Simulation
by wd9eyb@butler.indiana.net
32) [38483] Re: ATTN: Jim Kortge
by "Jim Kortge, K8IQY" <jokortge@cwix.com>
33) [38484] FS or trade
by Peter James <mrpj@mindspring.com>
34) [38485] MM3 Manual
by "William Phinizy" <k6whp@gte.net>
35) [38486] QRPTTF MO/KS/OK Invitation
by "David Bixler" <DBIXLER@hs.seneca.k12.mo.us>
36) [38487] Re: QRP...well sorta...yup, I think so...
by Ron Stark <ku7y@dri.edu>
37) [38488] Thanks, guys
by "C.Lamar Derk" <n3at@enter.net>
38) [38489] Mail 'speed'
by "wayne reed" <wlreed@viaduct.custom.net>
39) [38490] Re: QRPTTF (Date and Times)
by Joe Gervais <vole@primenet.com>
40) [38491] QRPTTF Op Hit List
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
41) [38492] Regen Info from Charles Kitchin
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
42) [38493] NorCal Resistor Kits Second Run Ship today!!
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
43) [38494] Circuit board available for Kitchin Regen from Far

by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
44) [38495] Norcal Cascade
by Gary Wilcox <rwilcox@newton.cacky.com>
45) [38496] Logging With A Pocket Calculator
by wd9eyb@butler.indiana.net
46) [38497] Pi filter musings (for my Pixie)
by Jim Glover <psykey@okcforum.org>
47) [38498] QRPTTF
by Jeff Grudin <grudin@pacific.vdbs.com>
48) [38499] QRPTTF MN/WI/IA spells Victory, WI
by Jim NOUR <n0ur@yahoo.com>
49) [38500] Re: "QRP Propagation"
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
50) [38501] Re: Pi filter musings (for my Pixie)
by "Charles R. Ott" <k5hj@fastlane.net>
51) [38502] SWR and the NC20 PA
by FrConrad@aol.com
52) [38503] Re: "QRP Propagation"
by John Bohnert <johnb@elmhurst.edu>
53) [38504] logging computer for qrpttf and field day
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
54) [38505] RF Power Measurement
by "Harry T. Hurst" <hhurst@delaware.infi.net>
55) [38506] Doin' the Zombie Chirp!
by "John L. Sielke" <n4js@pobox.com>
56) [38507] Re: RF Power Measurement
by "Robert Friess" <rfriess@ibm.net>
57) [38508] Re: Doin' the Zombie Chirp!
by "Robert P. Okas" <vintage@best.com>
58) [38509] Re: RF Power Measurement
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>

Date: Sun, 18 Apr 1999 19:31:05 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Cc: "Homebrew Reflector" <homebrew@qth.net>
Subject: [38452] Switching PS @ no load
Message-ID: <002d01be89f3\$87968740\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All... I noticed a remark the other day about how SW PS do not like operating under no-load conditions... and it reminded me that I have long

been curious about what modern manufacturers of switching supplies are doing about that. Do they just warn you not to do it? Is there a small enough minimum load that they can just use a relatively small resistor? Curious minds want to know. At least, mine does.

72 / 73 Ed N4XY

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

Time flies like an arrow. Fruit flies like a banana.
... Groucho Marx

Date: Sun, 18 Apr 1999 17:40:16 -0600
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38453] ATTN: Jim Kortge
Message-ID: <371A6D5F.54B0@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim, I don't have your email address so excuse the post to the group.

I believe your the fellow that sent me the info on the MX-7 a while back, and again thank you. Can you tell me the value of the xtal to put the rig centered around 7.040? Right now mine is in the Novice portion, and need to get it working on 7.040 for next years Fox Hunt.

Thanks, Tom WB5QYT.." Have spud will travel!"

Date: Sun, 18 Apr 1999 19:51:22 -0400
From: Hank Kohl K8DD <k8dd@tir.com>
To: n4xy@att.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [38454] Re: Switching PS @ no load
Message-ID: <4.1.19990418194856.019255a0@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have one of the SEC1223 switching power supplies from TechAmerica.
No warnings in the manual about no load. Mine is 13.9VDC with no load
and 13.7 with a 20A load.

Works great.

73 Hank K8DD

At 07:31 PM 4/18/99 -0400, Ed Tanton wrote:

>Hello All... I noticed a remark the other day about how SW PS do not like
>operating under no-load conditions... and it reminded me that I have long
>been curious about what modern manufacturers of switching supplies are
>doing
>about that. Do they just warn you not to do it? Is there a small enough
>minimum load that they can just use a relatively small resistor? Curious
>minds want to know. At least, mine does.

>

>72 / 73 Ed N4XY

>

>-----
>Ed Tanton N4XY EMAIL: n4xy@arrl.net
>189 Pioneer Trail
>Marietta, GA 30068-3466 TEL: (770)579-3933

>

>INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)

>*BoatAnchors *Test Equipment *Photography

>~~~~~

>Time flies like an arrow. Fruit flies like a banana.

>... Groucho Marx

>~~~~~

>

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS <http://www.tir.com/~k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Sun, 18 Apr 1999 19:00:00 -0500

From: mjfitz@uswest.net
To: qrp-l@Lehigh.EDU
Subject: [38455] E-Mail Question
Message-ID: <371A7200.BE8A2A7C@pop.omah.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey!

I'm new to this E-mail and computer stuff...
My question is--how do you write/send a
post to the list and not have it get chopped and wrapped
around like
this line is? I notice that I can only go about 50-55
characters before
this happens, and I realize it not only looks
lame and goofy...it's also hard to read!

Help!

Mike KI0AF Mo. Valley, IA

Date: Sun, 18 Apr 1999 17:11:36 -0700 (PDT)
From: Paul Erickson <paule@sfu.ca>
To: qrp-l@lehigh.edu (qrp), qrp-canada@lists.gpfn.sk.ca (qrp-canada)
Subject: [38456] FS: OHR400/KC2
Message-ID: <199904190011.RAA26189@fraser.sfu.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For sale: OHR400 with the KC2 frequency counter/keyer. \$300 obo

If not interested in the KC2 I will sell the 400 alone for \$240.

cheers, Paul VE7CQK/email: paule@sfu.ca

Date: Sun, 18 Apr 1999 14:15:28 -0400
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu, n2tuk@frontiernet.net, cg091@freenet.buffalo.edu,
bobkowa@netacc.net, billy@frontiernet.net, djw@dos.nortel.com, wb8ygg@juno.com,
rindiano@rpa.net, duanekf2jc@aol.com, kf2xc@frontiernet.net,

k2db@contesting.com, cwellls@juno.com, k2dv@rochester.rr.com, wb2vuo@juno.com,
Subject: [38457] FS/Trade: TM-241A for 2M HT
Message-ID: <19990418.142907.-113217.8.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am posting this for Jim, KB2SYU (My brother-in-law).

Jim has a Kenwood mobile, the TM-241A that he doesn't use. He is looking for a basic, failry current 2 Meter HT to trade for the mobile, something like an Alinco DJ-191, ADI AT-201/HP, Icom T-22 or whatever. His needs require an HT with CTCSS encode/decode, 3 - 5 watts out, nicads (or NiMH batteries) and charger. He does NOT want a Radio Shack HTX-202!

The Kenwood is a couple of models back, 5/10/50 watts out with memories, extended VHF RX and the works (for its day). It has CTCSS encode, but I don't think it has decode.

Please contact Jim directly if you have a suitable HT and would like to "upgrade" to a mobile.

Jim's Email is buyeaja@dreamscape.com

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 18 Apr 1999 21:32:37 EDT
From: PDouglas12@aol.com
To: qrp-1@lehigh.edu
Subject: [38458] NE QRP visit
Message-ID: <4c14dbc2.244be1b5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

NE QRP met today at ARRL HQ for a congenial get-together. It was a smaller group than usual, probably because some folks had come for the earlier attempt at an annual meeting, which unfortunately fell on a snowy day.

So, we had one K2 to see, and an SG 2020 too. We put the 2020 on the air later from W1AW, and I had a short QSO with it. I understand this 2020 was a replacement from SGC, provided because the original product had an intractable chirp on CW. (This sounded like a familiar story to me.) Please don't flame me on this, I am just retelling what the owner related to all of us. And trust me on this, I am giving the redacted version of the tribulations of this owner. Anyway, over at W1AW the 2020 had no chirp after a short warm up, and its relay-QSK was fast and thump-free, although you can hear the relay clicking. I enjoyed my little QSO with it. Still, I'm not about to withdraw my order for a K2! Before lunch, we did have some fun reading the price list for the accessories available from SGC. For a mere \$1300 or so, you can buy a KW linear. Or, if you want a spares kit, that's \$1200 unless you want a COMPLETE spares list, oh, then that'll be \$2600. This is obviously government specs at work. You know the \$200 hammer and all. Not to mention toilet seats--ok, I told you not to mention toilet seats.

Anyway, it was good to see old friends. Dave Benson NN1G had his DDS prototype there and advised that his beta boards are expected to go out to testers this week. Dave noted that this rig is the latest in the line of progeny of his NN1G 40/40 rigs. It has a built-in keyer, frequency annunciator (in morse) and instead of a pot, it has an interrupter (it clicks when you turn it!)

72,
Preston

Date: Sun, 18 Apr 1999 19:07:21 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [38459] Stuff what ain't supposed to happen & a DX contact
Message-ID: <19990418.190727.20614.0.nilsbull@juno.com>

Gang,

Those who know me well enough to stay away will testify to my egregious tendency toward cynical pessimism. So when I hear some stuff on 17m & think about touching the key, I always have this flash of doubt that says "You ain't gonna get the Q, dude."

Today, while cleaning up from the telegraph key long-windedness on Friday, I had a QSO with Hiro in Shiga on 18.073 or something. He gave me a 559. He was 589. This on the Sierra running about 4 watts into the

remote tuned vertical pasted to the side of the garage.

I remember back in around 1972 when QST reviewed the then brand-new Ten Tec Argonaut, one of the things the reviewer said was that it wasn't a "toy radio," that the Argonaut was a real radio that would do real radio things. Which is probably why I bought one when I got out of the USN in March of that year.

Looks like I just learned that the Sierra ain't a toy radio either. Man! A Q with a guy in Japan in the middle of the afternoon on 17m. This kinda stuff ain't supposed to happen.

73

Nils

Nils R. Bull Young :: La Estancia de los Guajolotes Sonrientes
WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com
"In my day we had to FIGHT to have email! Every day was a struggle!"
-- Comrade Sergei Nikolaievich

McTovarishov

You don't need to buy Internet access to use free Internet e-mail.
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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 18 Apr 1999 14:45:24 -0400
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [38460] Re: FS: GPS/HT's/HTX-100
Message-ID: <19990418.144721.-113217.48.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have interested parties on the HT's and the HTX-100, and a seerious batch of questions on the GPS. Thanks for the interest. It was as quick as always!

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 18 Apr 1999 20:34:33 -0700
From: Ken La Rose <kenlar@csolve.net>
To: qrp-canada@lists.gpfn.sk.ca
Cc: qrp-l@Lehigh.EDU
Subject: [38461] Spring Bouquet Log
Message-ID: <371AA449.6CDB@csolve.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Station VE3ELA, April 13/99, 7045 kHz CW, Trilliums Awarded:

Time	Station	RST sent	RST Rec'd	Name, #/Pwr
0111 Z	AE4Y	569	559	Kent, GA QRP-L#1844, 5W
0247 Z	WZ2T	599	599	Rick, Duane, NY, 5W,
0310 Z	VE1AHX	559	559	Ben, NS, QRP-C#26

Comments: Operated stealth portable from my week-day residence in Claremont, On. Strung a W3EDP longwire in the dark, height only about 8 ft. above ground! Band was noisy and signals were fading in and out. Got lonely and slipped down to 7040 kHz several times to call CQ, but not many QRPers to be found. Maybe they were all contested out from the ARCI QSO Party the night before! Or maybe my poor antenna arrangement just wasn't cutting it. Rig was a Heathkit HW-9 running 3 watts. Thanks to those ops who came looking for me, see you again next month!

72, de Ken VE3ELA Midland, On., Canada

Date: Sun, 18 Apr 1999 22:45:56 EDT
From: SMurph555@aol.com
To: qrp-l@lehigh.edu
Subject: [38462] Switching Regulator Power Supplies
Message-ID: <e0586af1.244bf2e4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi gang:

Last summer, I picked up a (nominal) 12V, 2.5A switching regulator poser supply at an area hamfest. Price was \$5.00, but the chap handed me a second one, saying that they weren't moving very well. I have no idea what they were designed to power.

When I turned it on, I found the no-load voltage was higher than I wanted, or than my QRP rigs are specified to operate on. Curious, I slapped resistors across the output until the switcher's output dropped to near the full load value. As I recall, the little supply wanted about 0.1A load on it to behave.

So I installed a 150 ohm resistor and powered up my Argo 556. It was happy, the PSU was happy and I'm happy. No switching noise that I could find.

Perhaps there's something in the statement someone made that such supplies for ham gear have the high voltage at no load effect taken care of. Still, for \$2.50, I can't complain.

72/73

Cal K4JSI

Date: Sun, 18 Apr 1999 19:56:45 -0700
From: "Frank" <ke6vhm@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [38463] Thanks to all that set me straight
Message-ID: <009101be8a10\$c41876c0\$6770fea9@west->
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

will be back soon
73 to all on the list
de Frank KE6VHM

Date: Sun, 18 Apr 1999 23:03:26 EDT
From: KB9OCE@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [38464] QRP...well sorta...yup, I think so...
Message-ID: <6e17eddf.244bf6fe@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey All -

At a recent hamfest I picked up a bunch of small meters (s-meters, etc) that were removed from equipment. I plan to hb a qrp rf wattmeter and was wondering...

There are no markings on these. How could I determine the value?

Thanks and 73
Mike Truax, kb9oce
Portage, IN

Date: Sun, 18 Apr 1999 22:56:10 -0400
From: "George Heron" <n2apb@erols.com>
To: "NJ-QRP" <njqrp@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [38465] WTB: IC-706 or Alinco DX-70
Message-ID: <00f701be8a11\$adbeeac0\$58cfaccf@herong>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My weekendly car travel of 4 hours each way between NJ QTH and Baltimore job causing me to seriously look for mobile SSB/CW rig to go along with new Screwdriver antenna from Atlanticon. Of course, will run it QRP :-)

Anyone looking to part with their IC-706 or Alinco DX-70? (A better alternative is perhaps to order a K2, but sadly just no time to put it together.)

73, George Heron, N2APB
n2apb@amsat.org
sometimes in NJ, othertimes in MD

Date: Sun, 18 Apr 1999 23:19:33 -0400 (EDT)
From: "John L. Sielke" <n4js@pobox.com>
To: wayne reed <wlreed@viaduct.custom.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38466] RE: Fw: PSK31
Message-ID: <XFMail.990418231933.n4js@pobox.com>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 8bit
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Sorry, decoding RTTY by ear won't earn you the "Official Luddite" certificate.
You must also be able to SEND RTTY, with a straight key.

On 18-Apr-99 wayne reed wrote:

> Help!
> I'm still trying to decode RTTY by ear!! How do you guys do that?
>
> to quote someone else "if your not having fun, your not doing it right"
>
> Wayne Reed, K9NE

/ \ / \ / \ / \ John L. Sielke n4js@pobox.com n4js@qsl.net
(N)(4)(J)(S) NJ Grid:FM29LN <http://www.qsl.net/n4js>
/ _/_ _/_ _/_ NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

Date: Sun, 18 Apr 1999 22:39:57 -0500
From: sda <sda@bellsouth.net>
To: qrp-1@Lehigh.EDU
Subject: [38467] Tried a K2...
Message-ID: <199904190339.XAA19127@mail1.lig.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Was invited to Mike K5UX's house today to check out his K2. Had to check my shirt for drool after operating it. Wow, unbelievable. Called CQ on 14.060 and N9UUI came right back and gave me a 599 from south bend indiana. Mike showed me the features and stuff, and I was in awe. Can hardly wait to get mine in the mail.

Of course you know...I was trying to forget about the K2 order, and just be surprized one day when it shows up. Ugh! Now it's on the brain again!

Mike was also kind enough to hook my NC20 up to his 'scope and we set it for just under 5W. I had been running about 5.75!!! Yikes. We looked at the

"waveform" i guess you call it, and Mike pronounced it very clean. No "spurs" or whatever. Tnx Mike for a nice afternoon.

Came home and fired up the NC20 and got VE7PEB qrp-qrp in BC, and KB2WXI qrp-qrp in NY. Wish I could stay home and build and operate all day. QRP rules. Almost considered bringing the NC20 to work with me but eh... people would think I am nuts.

Peace and 72/73,

Todd Atkins, K4MSW
Baton Rouge, Louisiana
<http://www.qsl.net/k4msw>

Date: Sun, 18 Apr 1999 23:23:36 -0500
From: Jay Bromley <w5jay@alltel.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38468] Little Rock Hamfest
Message-ID: <371AAFC8.994ADF@alltel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Any of you QRP types going to the Little Rock Hamfest this weekend?
Please reply direct. Thanks and 73 de w5jay..

Date: Sun, 18 Apr 1999 20:40:48 -0600
From: Jess Gypin <jessqrp@concentric.net>
To: goodroe@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38469] Re: Palm Logging
Message-ID: <371A97B0.CA60F192@concentric.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I picked up a database called mobileDB for my Palm III and can upload and download data from the Palm to my logging software. If anyone is interested in the particulars, I can let you know off line.

George Goodroe wrote:

> Ray's Palm Archive is one of the largest depositories of Palm programs on
> the web. Many are free. Go to <http://www.palmcentral.com/>
>
> I found none that were specifically for logging, however there is no reason
> that the memo function and/or the existing address list function couldn't
> already fill the bill. Simply add a new category called CallLog and start
> logging. I have been a Palm User for 3 years now...great tool.
>
> 73 de KF4CPJ
> George Goodroe, QRP-L #1943
> St. Petersburg, Florida USA
> 80 Meter high noise capital of the USA <grin>

--

Jess AE0CW <><
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfti/bug.html> Bug Stories

Date: Sun, 18 Apr 1999 22:21:54 -0700 (MST)
From: Joe Gervais <vole@primerenet.com>
To: elawson@lr.net
Cc: qrp-l@lehigh.edu
Subject: [38470] Re: QRPTTF Newbie Questions
Message-ID: <199904190521.WAA20837@usr09.primerenet.com>

Howdy Ed (and Folks),

Sorry for the long delay. Was tied up all last week. Luckily someone finally heard my cries for help. :-)

On 4/16, Ed (K1VP) wrote:

>

> I have never operated in the QRPTTF and I am a relative
> newbie in the QRP world.

Welcome to QRP! The best-kept secret for fun in
Hamdom! :-) QRP contests are a great place to have
fun. A lot less pressure, maximum smiles. It's not
unheard of for mini-ragchews to happen all throughout
the day. :)

> I am planning on an operation for QRPTTF and trying
> to determine what equipment and modes are worthwhile.
> This leads to a few questions such as:

>

> 1. Is there much SSB activity?

CW's basically Da Mode, for now anyway.

> 2. Do most contestants stay near the QRP calling frequencies?

Yep! In fact, wander away from the QRP Herd farther
than +/- 4KHz of the QRP calling freqs and QRPTTF ops
will be hard to find.

> 3. Are there any logging programs which are specifically designed
> QRPTTF or can be readily used?

I'll have to defer to the common QRP-L wisdom for
this one, as I'm still and pen-and-paper Luddite
when it comes to logging. :) Sorry!

> 4. Is the level of activity similar to the Spring QSO party of
> last weekend.

Thereabouts. QRPTTF is a busy contest, lots of good
folks on the air. If you're on 15/20/40m, I doubt
you'll be bored. ;-)

Again, sorry for the delay. Please let us know if
you need any more info!

Cheers de AB7TT,

-Joe, vole@primenet.com, Random NorCal Contest Critter

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Sun, 18 Apr 1999 22:36:46 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [38471] QRPTTF Op Hit List
Message-ID: <199904190536.WAA21290@usr09.primenet.com>

Howdy again Folks,

Just another sampling of some of the ops that'll be warming the ionosphere this Saturday during NorCal's QRP To The Field (QRPTTF) event.

If I left you off or messed up your data, please let me know!

I'll be heading up Thursday for my ID/MT QRPTTF rendezvous with K7TQ (Randy) and WA7SSA (Niel), so no email for me after Wed. Between Doug, Paul and the ol' QRP-L Buddy System, I'm sure everyone will get the info they need on Thur/Fri. :)

We'll have a summary sheet up on the NorCal website before I leave.

Hope to hear you out there!

Cheers de AB7TT,

-Joe, vole@primenet.com, Random NorCal Contest Critter

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

QRPTTF OP LIST (As of 4/18/99)

Border Ops:

AK/VY1	- KL7H (Bruce), WL7VO and others
WY/NE/CO	- KI0II (Ron)

AZ/NV/UT	- W7TAO (Scott, K7ZEN & Bruce, N7CEE)
NV/CA/Casino?	- KI6DS (Doug), NA5N (Paul) & N0QT (Jan)
TX/OK	- AB5UA (Clif) & K5AAR (Don)
TX/OK	- K5FO (Chuck)
SD/WY	- WU0H (Keith) & N0SXX (Gary)
AZ/CO/UT/NM	- KK6MC/5 (Jim) and ???
VT/NH/QUE	- K1VP (Ed)
VA/TN/NC	- N4ROA (Dan), N4DD (Dennis) & KM7W (Marty)
WA/BC	- N7RR/VE7HR (Bruce) & KD7CEL (Margaret)
VA/MD	- W4IM (John)
AZ/NM	- AK7Y (Greg)
AZ(/NM?)	- KI7MN (Bob), N7XJW (Bertie), W5VBO (Brian) and ???
NY/VE3	- AE2T (Al)
NH/ME	- KB0VCC (Dale)
ID/MT	- K7TQ (Randy), WA7SSA (Niel) & AB7TT (Joe)
AZ/XE2	- KE7MU (Brad)

Un-Border Ops:

NM	- WA5WHN (Jay)
IN	- KB9BVN (Brian)
WA	- WA20CG/7 (Michael)
CA	- The Delta Mudchucks: AB6MB (Jeff) & K06GF
HI	- KH6B (Dan) and friends

Date: Mon, 19 Apr 1999 01:01:49 -0500
 From: mjfitz@uswest.net
 To: qrp-l posts <qrp-l@Lehigh.EDU>
 Subject: [38472] Re:Line Length-Thanks!
 Message-ID: <371AC6CD.34C973E7@pop.omah.uswest.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii
 Content-Transfer-Encoding: 7bit
 Content-Transfer-Encoding: 7bit

All-

Thanks for all the excellent help I have received concerning my problem with the E-mail line lengths. With this help I've been able to get things lookin' and workin' FB. You guys are great! I love this list! (sniffle, sniffle)

Mike KI0AF

Date: Sun, 18 Apr 1999 23:53:38 -0700
From: Jim <w7ls@blarg.net>
To: KB9OCE@aol.com, qrp-1@lehigh.edu
Subject: [38473] Re: QRP...well sorta...yup, I think so...
Message-ID: <371AD2F2.BF3428A7@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey, back!

It's not hard to figure the meter movement ratings. It is a current meter, and the deflection is proportional to the applied current. Common values are 1 mA and 100 uA. Just take a known voltage, such as 5 volts from a regulator chip, and add a high value resistor in series with the meter. Make it a variable resistor and starting out with the highest value of resistance, slowly reduce the resistance until you get a full scale deflection. The variable resistor is the vast bulk of the total resistance in the circuit, so now we can say that 5 volts divided by the resistance for a full scale deflection is a current value for the meter. Measure the resistor with an ohmmeter, after you are done tweeking it.

If the meter happens to be a 1 mA movement, you will be finding a resistance of $5V/1\text{ mA} = 5\text{ K ohms}$ on the variable resistor. If it happens to be a 100 uA movement, you will see $5V/100\text{ uA} = 50\text{ K ohms}$. Given these numbers, I'd recommend using a 100 K ohm linear taper variable resistor (potentiometer) and make darned sure you start out with MAXIMUM resistance, then decrease it. If you get this backwards, you will smoke the movement, after hearing a loud clang, as the pointer wraps itself around the far peg! Also, look on the back of the meter movement and you will likely see a + and a - terminal. If not, then continue as I described, but watch to make sure you are getting the meter to start to swing up in the right direction. If it is backwards, you will jam the pointer down backwards.

It is possible that there is a series resistor in the meter, thereby making it a voltmeter, not an ammeter. Not likely, but if you get goofy results, this may be the culprit.

Hope this helps. Have fun! 73 de Jim, W7LS

KB9OCE@aol.com wrote:

> Hey All -
>
> At a recent hamfest I picked up a bunch of small meters (s-meters, etc) that
> were removed from equipment. I plan to hb a qrp rf wattmeter and was
> wondering...

>
> There are no markings on these. How could I determine the value?
>
> Thanks and 73
> Mike Truax, kb9oce
> Portage, IN

Date: Mon, 19 Apr 1999 09:27:48 +0200
From: "David Reid" <dareid@Synopsys.COM>
To: qrp-l@lehigh.edu
Subject: [38474] Re: FS: K-2, already built DO NOT SEND MONEY
Message-ID: <199904190727.JAA23750@goofy.gr05.synopsys.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi guys,
just to aid you -
If S.lewis is GM4PLM - DO NOT SEND THIS GUY ANY MONEY.
(you'll never see it again.)
search for his callsign in a web search-engine and read the complaints.
(ther are a lot!)

Dave

Date sent: Fri, 16 Apr 1999 21:11:16 -0500
Send reply to: sda@bellsouth.net
From: sda <sda@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: Re: FS: K-2, already built

> At 12:40 PM 4/16/99 -0700, Christopher wrote:
> >
> > This seems almost too good to be true, but this person is selling an
> > Elecraft K-2 already built. He writes for a radio publication and built it
> > for a review. I would grab it but my SG-2020 pretty well absorbed my radio
> > budget. PLEASE don't write me--write him, Simon Lewis, at:
>
>
> >
> > slewis@pacsat.demon.co.uk
>
> ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

>
> Hmm...poor guy is gonna have about 250 emails in his box
> by tomorrow afternoon!
>
> Todd Atkins, K4MSW (patiently awaiting his K2)
> Baton Rouge, Louisiana
> <<http://www.qsl.net/k4msw>><http://www.qsl.net/k4msw>
>
>
>
>
>
>
>

Date: Mon, 19 Apr 1999 01:02:28 -0700
From: David Fifield <fifield@pacbell.net>
To: dareid@Synopsys.COM
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38475] Re: FS: K-2, already built DO NOT SEND MONEY
Message-ID: <371AE314.7E6C7089@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dave,

Are you sure you have the right guy/callsign? Simon is a very well known ham in Europe - he is the Editor of the European Microwave Newsletter and, AFAIK, a totally above board fellow.

I did what you suggested and did a search on his callsign, GM4PLM, and found nothing untoward at all, just stuff from the EMN and links to microwave records/projects etc., no complaints at all.

Which search engine did you use? Help us get to the bottom of this.

72, Dave Fifield, AD6A

David Reid wrote:

>
> Hi guys,
> just to aid you -

> If S.lewis is GM4PLM - DO NOT SEND THIS GUY ANY MONEY.
> (you'll never see it again.)
> search for his callsign in a web search-engine and read the complaints.
> (ther are a lot!)

Date: Mon, 19 Apr 1999 10:21:41 +0200
From: "David Reid" <dareid@Synopsys.COM>
To: qrp-l@lehigh.edu
Subject: [38476] Re: FS: K-2, already built DO NOT SEND MONEY
Message-ID: <199904190821.KAA25937@goofy.gr05.synopsys.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

David,
Let's take this off-line as it is not QRP - exactly, and then we can report about it at a later date... David, I've replied direct to you regarding this matter.

Dave
PA3HBB

Date: Mon, 19 Apr 1999 11:23:12 +0200
From: "David Reid" <dareid@Synopsys.COM>
To: qrp-l@lehigh.edu
Subject: [38477] a happy story, if ya like that kinda thing
Message-ID: <199904190923.LAA28617@goofy.gr05.synopsys.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi all,
well added some new equipment to the shack this weekend.
A TS570D and an SW-40....
so wonder what you think of this sad OM who got the SW-40
QRV and had a QSO (or 10) instead of playing with the TS570???

Best DX into my vertical was TM1, EA5,LA9 and DL!!! which is not too bad from holland with only 1 Watt...I heard PY2 on 40M but he was only 559 and the QRM was pretty bad.(as usual in Europe on 40M)

Is there an RIT mod for the SW-40?

Take care -
Dave
PA3HBB / G0BZF

Date: Mon, 19 Apr 1999 04:05:28 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <qrp-1@lehigh.edu>
Subject: [38478] QRPTTF
Message-ID: <199904191004.EAA16203@srv.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Can someone tell me the operating times and date for QRPTTF. I must have missed them or misplaced them 72 Cak KF7ET

Date: Sun, 18 Apr 1999 07:04:49 -0700
From: "C.Lamar Derk" <n3at@enter.net>
To: <qrp-1@lehigh.edu>
Subject: [38479] VFO tuning in the NC 20
Message-ID: <003101be89a4\$6d16b880\$3edbaacc@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi gang -

Got my NC20 to the point where I have tuned the VFO, and wonder if everything is OK. At the low end, the AFA reads 999, as per the manual. When I tune up the band, the next read I get is 00, then 01, then 02, etc., all the way up to 86. I assume this is what it should be, but would like some verification, since earlier in the manual I am told that if I get 00, etc, (only 2 numbers), it needs more tuning. I suspect that i am OK with the way it tunes. What do you think?

72 de Lamar

Date: Mon, 19 Apr 1999 01:45:40 -0400
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [38480] GPS38 is gone...
Message-ID: <19990419.015648.-10819.2.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have a serious offer on the GPS. Thanks for all the interest in the gear. After Washington and Albany are happy with the taxes I sent in, I can then get back to saving for my K2. FD will be borrowed gear this year.

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY
My night light runs more power than my Rig!!!

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 19 Apr 1999 07:11:41 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38481] Re: Regenerative Receiver References
Message-ID: <371B2B8D.8A22626C@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Charles Kitchen also wrote an excellent article which appeared in the March 1994 issue of Electronics Now, titled "The Lost Art of Regeneration". It is a very nice article with some radio history and a bunch of good schematics.

Bruce kk7zz

Date: Mon, 19 Apr 1999 08:24:14 -0500 (GMT+5)
From: wd9eyb@butler.indiana.net
To: wvara@butler.indiana.net
Cc: qrp-l@lehigh.edu (QRP List)
Subject: [38482] Re: Resistive Antenna Bridge Simulation
Message-ID: <199904191324.IAA07931@butler.indiana.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I built the resistive bridge that I simulated.
I played with it using my QRP rigs and my dual band HT.
It works as advertised, all the way up to UHF.
I now have a generally useful tool for tweaking and tuning.

To build it I mounted 3 BNC connectors on a small square piece of PCB
and soldered the rest of the components on ugly style.
I paralleled two 100 Ohm 1 Watt resistors to make a 50 Ohm resistor.
So there are six resistors in it and so it can dissipate 6 Watts.
I also built a dummy load out of 2 resistors; when the dummy load
is connected to the bridge the whole thing is an 8 Watt dummy load.

I think resistive bridges have the following advantages over QRP Wattmeters.

- My rig never sees anything worse than a 2:1 SWR while tuning.
- There's no battery in the bridge to run down. I forget and leave the QRP Wattmeter on too many times running down the battery.
- The bridge works all the way to UHF, my Wattmeter only works at HF.
- The bridge also works as an attenuator and a dummy load.

But don't get me wrong. I still like my QRP Wattmeter.

Thanks for reading,

Jim, WD9EYB

>
>
> Originally From: wd9eyb@butler.indiana.net
> Recipients: 48
>
>
>
> I have simulated a resistive bridge that's used for impedance matching.
> The circuit is almost the one from the ARRL antenna book.

> There are 2 PDF files on my web site that give the schematic and a plot
> of the data from the simulation.
> <http://www.qrp.com/~wd9eyb/ResBridgeSch.pdf>
> <http://www.qrp.com/~wd9eyb/ResBridgePlot.pdf>
>
> The schematic has the circuit repeated 5 times, once for each of the
> following cases, 50 Ohm load, short, open, 25 Ohm load, and 100 Ohm load.
>
> In the 50 Ohm load case the V1 voltage source and resistor RS represent
> a QRP transmitter on 7.040 kHz. The voltage source amplitude is 10 Volts.
> Resistors R1, R2, and R3 are three legs of the bridge. Resistor R4
> is the load and the fourth leg of the bridge. The other copies of the
> bridge schematic are the same except for component designators and the
> load resistor value.
>
> R1 and R2 form a voltage divider. R3 and R4 also form a voltage
> divider. If the load, R4, is such that the divider ratios are equal,
> there is no voltage difference between the two mid points of the bridge.
> This is the matched condition. If R4 is such that the divider ratios
> aren't equal, there is a voltage difference between the two mid points.
> This is a mismatch.
>
> Diode D1 and capacitor C1 detects the voltage difference between the two
> mid points of the bridge. If the bridge is matched, the DC voltage across
> C1 is zero. If there is a mismatch, there is a DC voltage across C1.
>
> Measuring the voltage at the C1/D1 node with respect to ground will
> include the AC voltage on R2. R8 and C2 are a low pass filter which
> removes the AC component and allows the detected DC voltage to be
> measured on C2, the output capacitor, with respect to ground.
>
> The voltage on the output capacitor is plotted.
> There are 5 traces in the data plot. The top trace is the open
> case. Next to top is the shorted case. Middle trace is the 100 Ohm case.
> The next to bottom trace is the 25 Ohm case. And the bottom trace is the
> 50 Ohm case.
>
> The plotted data indicates that the DC voltage on the output capacitor
> is zero for a match and positive for a mismatch. There is also an
> AC component to the output voltage. The meter probably won't respond
> to that. If it does, larger capacitors can be used.
>
> I used Microsim's Design Lab Evaluation Version 8 to enter the schematic,
> run the SPICE simulation, and produce the data plots.
> I used model parameter values for a 1N34A diode from Chuck Adams, K5FO.
> My SPICE book is THE SPICE BOOK by Andrei Vladimirescu, Wiley, 1994.
> I used GSVIEW to produce the PDF files.
>

> I had fun. Now I need to build it.
>
> Jim, WD9EYB
>
> =====
> To unsubscribe from this list, simply send a message to
> wvara@qrp.com with only "unsubscribe" in the subject of that message.
>

Date: Mon, 19 Apr 1999 10:02:31 -0400
From: "Jim Kortge, K8IQY" <jokortge@cwix.com>
To: wb5qyt@eFortress.com
Cc: qrp-l@lehigh.edu
Subject: [38483] Re: ATTN: Jim Kortge
Message-ID: <3.0.1.32.19990419100231.00ef00dc@mail49.cwix.com>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

At 05:40 PM 4/18/99 -0600, Tom WB5QYT wrote:
>I believe your the fellow that sent me the info on the MX-7 a while
>back, and again thank you.
Hi Tom.....nice to hear from you. I had forgotten that I sent you
info on the MX7. Thought I was the only person on the planet
that still had one of those! :-)

>Can you tell me the value of the xtal to put
>the rig centered around 7.040? Right now mine is in the Novice portion,
>and need to get it working on 7.040 for next years Fox Hunt.
Well I can get you close to the value you want. I have an original
Mizuho crystal for the rig that is marked as 9.16446 MHz. According
to my notes, that let the rig tune from 7.0225 to 7.0495MHz, a bit
more than the 25 KHz the rigs are supposed to tune. That crystal
was supposed to allow the rig to operate between 7.025 to 7.050 MHz.

My notes also indicate that crystals need to be ordered about 3.5 KHz above
the required tuning range. BTW, Mizuho doubles the crystal frequency
to cause the VX0 circuit to operate over a wider range than it would
if the crystal were being used at its fundamental. So as an example,
to receive 7.050 MHz needs a VX0 frequency of 18.3220 MHz minus the
i.f. at 11.2720 MHz. 18.3220 MHz divided by 2 is 9.1610 MHz, but
the actual crystal frequency used is 9.16446 MHz, a crystal that is
3.46 MHz higher in frequency than expected.

I would suggest getting a crystal at 9.16446, as that will allow you
to cover 7.040 MHz, and still have the dial readout work properly.

Buying crystals for a Mizuho is a bit of a crapshoot in that they may or may not cover the range that you want, all due to how much "pullability" is embodied in the crystal. You want to order one with the greatest "pullability" the manufacturer can provide.

The last two crystals I bought for my Mizuho were a pair to allow it to tune 7.200 to 7.225 MHz and 7.250 to 7.275 MHz, so that I could operate SSB on the bicycle. I ordered the crystals from JAN, and the lower frequency crystal was right on the money, and had 25 KHz of span, but the other one would not get to 7.275. It only tuned about 22 KHz. JAN remade it maybe two times, and we never did get it to work right. But that was the best they could do.

Well this has been a rather wordy answer, but hopefully it will give you some insight into what your getting into buying a new crystal for your Mizuho. I wish I had an extra 7.025 to 7.050 to give you, but I don't, and I often still use the rig on CW when I go vacationing and want a small rig to carry.

GL and let me know how it all turns out, or shoot me another e-mail if you have more questions.

72.....Jim, K8IQY

Date: Mon, 19 Apr 1999 10:17:33 -0500
From: Peter James <mrpj@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38484] FS or trade
Message-ID: <3.0.5.32.19990419101733.007c8920@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale or Trade: MFJ 20 meter QRP rig with Curtis keyer, in very good condition. Will sell for \$100 or trade for Sierra modules (need 80, 40, and 15 meters). Rig works great, but am concentrating on getting all the modules etc for my new Sierra.

73, 72, Pete, WM4U

423-977-0807 or email direct at mrpj@mindspring.com

Date: Mon, 19 Apr 1999 07:17:52 -0700

From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [38485] MM3 Manual
Message-ID: <001301be8a6f\$69e3eae0\$cd54fcd0@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, I've gone and done it! I sold my MM3 to Roger, KD6CC, and lost the manual. If anyone out there has one that they wouldn't mind copying, I'd be happy to pay the cost and postage, etc.

..oh, by the way, if you could send me/Roger the button combination to change (and change back) the paddle orientation (i.e., dit->thumb, dah->index finger), I would be most grateful.

..my thanks in advance.

Date: Mon, 19 Apr 1999 09:11:13 -0600
From: "David Bixler" <DBIXLER@hs.seneca.k12.mo.us>
To: qrp-l@lehigh.edu
Subject: [38486] QRPTTF MO/KS/OK Invitation
Message-ID: <11BF07DE0@hs.seneca.k12.mo.us>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hello QRPTTF'ers:

Anyone out there interested in sharing the three corners of Missouri - Kansas - Oklahoma for next weekend's QRPTTF?
I am hoping to mount an expedition to this great 3 point location again this year.

I worked from this site last year along with K5AAR and KU5M and had a blast!

You can drive right up the the monument at the three corners and it's easy to get wire antennas up running across the state boundaries.

If anyone is interested, drop me a note and I'll send driving

instructions. Sorry, the closest Taco Bell is in Joplin and is not
line of sight.

Dave

David Bixler W0CH - EI4VVN
Seneca, MO
QRP: Minimum power, maximum fun!
E-Mail: w0ch@arrl.net

Date: Mon, 19 Apr 1999 07:18:28 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: KB90CE@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38487] Re: QRP...well sorta...yup, I think so...
Message-ID: <Pine.SOL.3.96.990419071149.22773B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 18 Apr 1999 KB90CE@aol.com wrote:

> At a recent hamfest I picked up a bunch of small meters (s-meters, etc) that
> were removed from equipment. I plan to hb a qrp rf wattmeter and was
> wondering...
>
> There are no markings on these. How could I determine the value?

Hi Mike,

Good question!

Look in the ARRL Handbook under Meters: Internal Resistance.

I use that often here at work to figure out what is what
with a box full of meters.

If you don't have or can't get access to a handbook let
me know.

I highly recomend that everyone get a ARRL Handbook. For
the price you get more info than any other book I've seen
yet.

Used one are just fine. I am looking at a 1992 version and
all the basic info is there. I have seen this method of
determining the internal resistance of a meter back in the

handbooks I had while I was in High School. (Early 50"s!)

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sun, 18 Apr 1999 10:53:33 -0700
From: "C.Lamar Derk" <n3at@enter.net>
To: <qrp-l@lehigh.edu>
Subject: [38488] Thanks, guys
Message-ID: <001901be89c4\$b07670a0\$4edbaacc@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thank you to all those who responded to my question about the VFO in my NC 20. I can move on fearlessly with the rest of the construction. It's great to have friends who are willing to share info when you face something that is uncertain!!

72 de Lamar

Date: Mon, 19 Apr 1999 10:22:42 -0400
From: "wayne reed" <wlreed@viaduct.custom.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [38489] Mail 'speed'
Message-ID: <016501be8a70\$1787d260\$384961ce@q7c8d5>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I live out in the boonies, physically and so far as my ISP is concerned as well! I check my mail 2-3 times a day and many of the time sensitive

mail postings arrive here 3-4 days after they are posted. That means that if I were to try to make radio schedules or late notice for a eyeball gathering, I would be frustrated.

Am I the only one that has this problem or are we fooling ourselves? It seems that the speed of e-mail and 'snail mail' are about the same??

In any case, I love this group!! I get excited about QRP everytime I read the mail.

See you at FIDM.
Wayne Reed K9NE

Date: Mon, 19 Apr 1999 09:03:48 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: colcal@srv.net
Cc: qrp-1@lehigh.edu
Subject: [38490] Re: QRPTTF (Date and Times)
Message-ID: <199904191603.JAA05710@usr09.primenet.com>

Howdy Cal (and Folks),

Cal (KF7ET) wrote:

> Can someone tell me the operating times and date for QRPTTF.

This Saturday, April 24th, 1600 UTC to 2400 UTC.
Full rules/info posted on the NorCal website, the URL to which I forget, but I can forward that to you as well if you need it.

Hope to hear you out there, and thanks for your support!

Cheers de AB7TT,

-Joe, vole@primenet.com, Random NorCal Contest Critter

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Mon, 19 Apr 1999 12:12:52 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:vole@primenet.com" <vole@primenet.com>

Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group
<QRP-L@Lehigh.edu>
Subject: [38491] QRPTTF Op Hit List
Message-ID: <199904191216_MC2-7281-AA9A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Joe:

I expect to be operating on the western border of the Pine Ridge (Sioux) Reservation south of Rapid City, SD. OTOH, I *may* operate close to the Mt. Rushmore National Monument. Depends on where I am at start time. More likely to be the Pine Ridge QTH. This really is a border...

Setup will likely be OHR400 into an Inverted WYE for most of the operation. I use my car, a board, a piece of pipe, the 33' fibreglass mast from KANGA, and a piece of coax to make this work. Two radials. Actually loads without a tuner, believe it or not :-).

Anyway, looking forward to seeing you and the others soon on the air. Good luck.

72,
--Doc Lindsey/K0EVZ
DSBF
PO BOX 7187
Bismarck, ND 58507
70511.3041@compuserve.com

Date: Mon, 19 Apr 1999 09:46:39 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [38492] Regen Info from Charles Kitchin
Message-ID: <01be8a84\$32a8ec00\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys, Mike has done it!! He contacted Charles Kitchin, and Charles gave him the following url <http://www.chelmsford.com/bars/regenproj.htm> where there is a fabulous article on how to build a regen for SWL. This site is

fabulous. A wonderful article. Plus there is another site that I found last night that has the original article that Charles published in Electronic Design News. See <http://www.ednmag.com/reg/1994/081894/17di4.cfm> for the original article by Charles.

Plus, Brien Pepperdine faxed me the copies of Paul Harden's regen schematics. He has two of them, the Pipsqueak and the Desert Rat 3. I will get those to Jerry Parker tonight and hopefully have them up on the web.

Late flash. Charles just sent me some files on VHF versions of his Super Regen design, which will also go to Jerry Parker. Stay tuned folks, this is starting to take off.

Remember the purpose of all this is to build a regen receiver for the HamCom building contest. Hamcom is June 11th and 12th in Dallas, and a whole bunch of guys are going. Lots more announcements to come about other activities planned.

Great work Mike Fitz and Brien, way to go.

Oh, Mike Herr is also sending me a copy of the article that he mentioned yesterday and it will also go on the NorCal site. 72, Doug, KI6DS

Date: Mon, 19 Apr 1999 09:53:16 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [38493] NorCal Resistor Kits Second Run Ship today!!
Message-ID: <01be8a85\$1f3987a0\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey, the resistors for the second run came early, I got to work and got them kitted, and will ship all kits that I have received checks for today after school. They were not supposed to ship until May 1, but I got them done sooner than I thought. If you reserved a kit and still have not sent your check for \$29 (\$25 for the 2000 resistor kit and \$4 for the S&H), please do so. If you would like a kit, we have plenty of them left. To order send an email to me and I will send you a confirmation of a kit and ordering information. Wow what a response. 72, Doug, KI6DS

Date: Mon, 19 Apr 1999 09:56:40 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [38494] Circuit board available for Kitchin Regen from Far
Message-ID: <01be8a85\$9895f340\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I forgot to mention that the Regen article that is at
<http://www.chelmsford.com/bars/regenproj.htm>
has a circuit board available from Fred Reimers at Far Circuits. The cost
is \$5 plus \$1.50 S&H. Details on the web site!! Use of this circuit board
is permitted for the Hamcom building contest. 72, Doug, KI6DS

Date: Mon, 19 Apr 1999 12:23:26 -0500
From: Gary Wilcox <rwilcox@newton.cacky.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38495] Norcal Cascade
Message-ID: <371B668E.D0A5B842@newton.cacky.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Im building the Norcal Cascade kit and my manual is missing pages 25,
26, and 27. I would be glad to pay copy costs and postage if someone
could help.

Thanks
Gary
rwilcox@newton.cacky.com

Date: Mon, 19 Apr 1999 12:30:46 -0500 (GMT+5)
From: wd9eyb@butler.indiana.net
To: qrp-l@lehigh.edu (QRP List)
Subject: [38496] Logging With A Pocket Calculator
Message-ID: <199904191730.MAA20376@butler.indiana.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I saw some posts about using a Palm Pilot for logging,
so maybe this is of interest.

I used to use my HP48SX for logging and dup checking.
My HP48SX is now out of control, I can't get it to respond to
any key strokes. It still comes on once per day to play
a little Bach tune, but I can't get it to respond to me.

Anyway, I wrote a logging and dup checking program for it.
I even got it published in QST. Here's the reference.

Logger and Dupe Checker Programs for the HP48SX
QST, Vol. LXXVI, No. 12, December 1992, pp 83 - 84.

I've been eyeing the HP48GX down at Office Max for \$79.95.
Maybe I'll buy it and start logging with a pocket calculator again.
My HP48SX was cool. It even sent code practice.

Jim, WD9EYB

Date: Mon, 19 Apr 1999 18:41:43 +0000 (/etc/localtime)
From: Jim Glover <psykey@okcforum.org>
To: qrp-l@lehigh.edu
Cc: homebrew@qth.net
Subject: [38497] Pi filter musings (for my Pixie)
Message-ID: <199904191841.SAA17214@okcforum.org>
Content-Type: text

I'm still trying to figure out how to modify my Pixie2 for bands
other than 80 or 40. Over and over again, I keep seeing, "any
HF band, 160/80 through 10, just by changing the crystal and one
inductor" or words to that effect. I remember I used to see a
web page from time to time that had a circuit diagram for a Pixie,
which gave the values of that inductor for each HF band. (Too
bad I didn't save a copy of it!)

My research into this topic has turned up the following web page:

<http://qrp.pops.net/qrp/transmit.htm>

About half-way down the page is a section labelled "Low Pass

Filter". It sure looks like the same filter scheme used in the Pixie. However, after reading this section, I'm (still) confused. From what I read here, the cut-off frequency is determined solely from the value of the two capacitors. In the Pixie2 kit I got from Halted Specialties, C1 and C2 are 820 pF. Based on the formula given on this web page, that would mean that the capacitors are providing a cut-off frequency around 3.88 MHz. ...hmm...very reasonable for the 80-m band (which a lot of people seem to consider the default band for the Pixie). And if you then use their inductance formula, you get--OK...interesting!--values that are very close to the values of the two inductors supplied in the kit.

So...evidently, that's how these filter values are being calculated. (It can't be mere coincidence that these formulae calculate the same component values I find in my kit.) Evidently, someone cranked through the inductance formula for each HF band, to generate the list of inductor values that I saw in a circuit diagram somewhere one time.

But wait...what about that cut-off frequency? Doesn't that get to be more and more of a problem, the higher you go in frequency? Is this problem a show-stopper? Or, when people describe the Pixie as being "all HF bands, you just swap out the crystal and one inductor" do they mean "(that is, if you don't mind putting up with attenuated signals, on both transmit and receive, on the higher bands)"?

--Jim WB5UDE

Date: Mon, 19 Apr 1999 11:42:20 -0700 (PDT)
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: qrp-l@lehigh.edu
Subject: [38498] QRPTTF
Message-ID: <199904191842.LAA17357@pacific.vdbs.com>
Content-Type: text

Guys,

I Hiked the 12 mile round trip to my QRPTTF site yesterday. My friend, Tom KQ6DV, and I will be operating from Lane Camp in the Santa Cruz mountains.

I will be using my K2 with internal battery and solar charger. I built a z match tuner and 100 ft flat top fed with 300 ohm TV line. The antenna

is still in the testing mode so I may use another. Tom will be using the Elmer SW40+ and a resonant dipole.

Conditions have been so bad lately I haven't fully tested the antenna. I did work

Hong Kong this AM on 30M and Kamchatka on 40M with it, but these were tough contacts. Kudos to the ops on the other end for sticking it out.

This will probably be my only backpack trip with the K2. The station with all parts will weight about 9 pounds. There is no question this is my favorite rig, but the weight is alot to lug. Besides, I don't want to scratch it.

72 de Jeff AC6KW

Date: Mon, 19 Apr 1999 12:25:29 -0700 (PDT)
From: Jim NOUR <n0ur@yahoo.com>
To: QRP-L QRP-L <qrp-l@Lehigh.EDU>
Subject: [38499] QRPTTF MN/WI/IA spells Victory, WI
Message-ID: <19990419192529.28104.rocketmail@web215.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I was not even going to ask....but my wife is actually encouraging me to head out again this year for QRPTTF!!
Go figure

I am working on Larry (KB0R) to join me again, last year was almost a little to exciting. Instead of MN and the Dakotas (thanks to Doc) we may head east to the MN, WI and IA borders...on the banks of the Mississippi. The

WI side looks best for a corner shot, and the best part is that a small town very near is named Victory!

It was meant to be

72's es GL see ya all Saturday

Jim NOUR

Do You Yahoo!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 19 Apr 1999 15:26:08 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [38500] Re: "QRP Propagation"
Message-ID: <371B8350.291F@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Is there a propagation program for QRP operations?

A really good propagation program (good, AND free!) can be downloaded from:

http://elbert.its.bldrdoc.gov/pc_hf/hfwin32.html

It is "IONCAP" based and supports the entry of power levels.

73,
Ed Hare, W1RFI
ARRL Lab

Date: Mon, 19 Apr 1999 15:04:29 -0500
From: "Charles R. Ott" <k5hj@fastlane.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [38501] Re: Pi filter musings (for my Pixie)
Message-ID: <001d01be8a9f\$d6448340\$0100a8c0@isc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim,

You will need to change the inductor as well as the capacitors to change frequencies. One easy way to do it is to take an existing design and modify

the values by a "scaling factor". For example to modify a filter, that is designed for 40 meters, to 20 meters the scaling factor would be 2. All you would do is divide all the component values by 2 to obtain the new ones. If you only change the inductors, the input and output impedances will change drastically with frequency. You will find that generally speaking the X_c of the two capacitors will be equal to the input and output impedances respectively.

You might want to take a look at
<http://www.integritynet.com.au/~purdic/lowpass.html> There is some information on lowpass filters and impedance matching.

Randy. K5HJ

----- Original Message -----

From: Jim Glover <psykey@okcforum.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Monday, April 19, 1999 1:41 PM
Subject: Pi filter musings (for my Pixie)

> I'm still trying to figure out how to modify my Pixie2 for bands
> other than 80 or 40. Over and over again, I keep seeing, "any
> HF band, 160/80 through 10, just by changing the crystal and one
> inductor" or words to that effect. I remember I used to see a
> web page from time to time that had a circuit diagram for a Pixie,
> which gave the values of that inductor for each HF band. (Too
> bad I didn't save a copy of it!)

>

> My research into this topic has turned up the following web page:

>

> <http://qrp.pops.net/qrp/transmit.htm>

>

> About half-way down the page is a section labelled "Low Pass
> Filter". It sure looks like the same filter scheme used in
> the Pixie. However, after reading this section, I'm (still)
> confused. From what I read here, the cut-off frequency is
> determined solely from the value of the two capacitors. In
> the Pixie2 kit I got from Halted Specialties, C1 and C2 are
> 820 pF. Based on the formula given on this web page, that
> would mean that the capacitors are providing a cut-off
> frequency around 3.88 MHz. ...hmm...very reasonable for the
> 80-m band (which a lot of people seem to consider the default
> band for the Pixie). And if you then use their inductance
> formula, you get--OK...interesting!--values that are very
> close to the values of the two inductors supplied in the
> kit.

>
> So...evidently, that's how these filter values are being
> calculated. (It can't be mere coincidence that these
> formulae calculate the same component values I find in my
> kit.) Evidently, someone cranked through the inductance
> formula for each HF band, to generate the list of inductor
> values that I saw in a circuit diagram somewhere one time.
>
> But wait...what about that cut-off frequency? Doesn't that
> get to be more and more of a problem, the higher you go in
> frequency? Is this problem a show-stopper? Or, when people
> describe the Pixie as being "all HF bands, you just swap out
> the crystal and one inductor" do they mean "(that is, if you
> don't mind putting up with attenuated signals, on both
> transmit and receive, on the higher bands)"?
>
> --Jim WB5UDE
>

Date: Mon, 19 Apr 1999 16:01:48 EDT
From: FrConrad@aol.com
To: qrp-1@lehigh.edu
Subject: [38502] SWR and the NC20 PA
Message-ID: <7160fbab.244ce5ac@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

To all wise "Elmers" on the list:

I'll be mountain topping for QRPTTF and using my NC20 into what I hope will be a near-resonant 1/4 wave 20-meter Ground Plane.

My question is, how SWR tolerant is the PA on the NC20. Is 2:1 too much? How about 3:1?

If the SWR is way up there, would using a tuner make any difference in the actual performance, or would it just make the antenna "look" better to the rig.

Post directly please.

Thanks,

John+
WB6MFS

Date: Mon, 19 Apr 1999 15:12:51 -0500
From: John Bohnert <johnb@elmhurst.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38503] Re: "QRP Propagation"
Message-ID: <371B8E43.23A5516E@elmhurst.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If you are interested in 'prepared' QRP propagation predictions give
Jerry Hall's web site a look.....

<<http://www.concentric.net/~jerrhall/>>

72 N9KW John Elmhurst, IL QRP-L 1257 NORCAL

Date: Mon, 19 Apr 1999 15:40:22 -0500
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: "qrp reflector" <qrp-l@Lehigh.EDU>
Subject: [38504] logging computer for qrpttf and field day
Message-ID: <000101be8aa4\$db567aa0\$ef3c0b3f@default>

At yesterday's hamfest, I bought a Compaq aero contura 486/33 to put a
logging program on for the upcoming contests.

There is a folder titled "Win95Cab" in the root directory. Can anyone tell
me about these files ... win95_02.cab (.03 etc)??

Why someone even put win95 on a 170meg hard drive I'll never know but this
folder takes up nearly 50 meg. I need to know if I can safely get rid of
them to make room for some more ham software. Thanks ... Mike n0wdm
Minnesota

Date: Mon, 19 Apr 1999 18:21:29 -0400
From: "Harry T. Hurst" <hhurst@delaware.infi.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38505] RF Power Measurement
Message-ID: <000901be8ab2\$faf40360\$950d010a@wil-support1.WILMINGTON.GCI>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have a dummy load with a 1n34 type output for voltage measurement across the load. I've been using $(.707 \times e^2)/R$ to calculate my output power. Recently I've seen the same calculation using 1.414 instead of .707. (I may be mistaken about the exact number, but it was > 1)

As a math impaired person, I'm wondering which is correct.

It's only Monday, and I'm already burned out. I need QRPTTF!

Thanks.

Date: Mon, 19 Apr 1999 17:21:58 -0400 (EDT)
From: "John L. Sielke" <n4js@pobox.com>
To: qrp-1@lehigh.edu
Subject: [38506] Doin' the Zombie Chirp!
Message-ID: <XFMail.990419172158.n4js@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Well, finished up the NC20 finally. Had one little problem, it would not transmit. Found bad Q20 (2N3906). I had a generic PNP silicon, replaced it, and Voila!

Works just as an NC20 should. Max power about 6.5 watts. HOT receiver. AND, I'm doin' the "Zombie Chirp." just like all the other NC20's I have heard.

What WAS the cure for that?

Also, received my internal battery kit for the K2, so will be playing radios when I am off.

Unfortunately, I must work for QRPTTF. :-(

/\ /\ /\ /\ John L. Sielke n4js@pobox.com n4js@qsl.net
(N)(4)(J)(S) NJ Grid:FM29LN <http://www.qsl.net/n4js>
_/__/_/ NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

Date: Mon, 19 Apr 1999 14:28:49 -0700
From: "Robert Friess" <rfriess@ibm.net>
To: <hhurst@delaware.infi.net>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [38507] Re: RF Power Measurement
Message-ID: <000701be8aab\$a7d13920\$267d48a6@bobspd>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Harry,

If 100% efficient, your 1N34 will deliver the peak voltage. Assuming a sine wave (it better be or you have other troubles) multiplying by 0.707 will give the RMS voltage. The square of the RMS voltage divided by 50 is the power. $((e \times 0.707)^2)/50$

This may be what you meant in your post, but the parenthesis were not quite right.

73,
Bob, N6CM

----- Original Message -----

From: Harry T. Hurst <hhurst@delaware.infi.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Monday, April 19, 1999 3:21 PM
Subject: RF Power Measurement

> I have a dummy load with a 1n34 type output for voltage measurement across
> the load. I've been using $(.707 \times e^2)/R$ to calculate my output power.
> Recently I've seen the same calculation using 1.414 instead of .707. (I
may

> be mistaken about the exact number, but it was > 1)
>
> As a math impaired person, I'm wondering which is correct.
>
>
> It's only Monday, and I'm already burned out. I need QRPTTF!
>
> Thanks.
>
>
>

Date: Mon, 19 Apr 1999 14:45:04 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: "John L. Sielke" <n4js@pobox.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38508] Re: Doin' the Zombie Chirp!
Message-ID: <Pine.BSF.4.10.9904191431200.29386-1000000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello John and the Group,

Taming the "zombie chirp" is relatively straightforward: Replace the 78L08 regulator with a hand-selected unit. Buy 4-5 units and set up a test fixture with a 390 Ohm load on the output. Run the input voltage between 10 and, say 14 volts. Monitor the output voltage with a DVM capable of at least 3 1/2 digits of precision. 4 1/2 digit precision is better, since you can directly see what the millivolts are up to. The output should not budge at all.

The VFO transfer characteristic is approximately 10KHz/V. If the regulator output varies, it directly modulates the vfo control voltage. As you can see, a small change of 2mV in the vfo voltage results in a 20 Hz frequency shift. The chirp is more like a 'whoop' since the power supply voltage sags over a few hundred mS instead of instantaneously.

Good Luck,
Bob - W3CD

On Mon, 19 Apr 1999, John L. Sielke wrote:

> Well, finished up the NC20 finally. Had one little problem, it would not
> transmit. Found bad Q20 (2N3906). I had a generic PNP silicon, replaced it,

> and Voila!
>
> Works just as an NC20 should. Max power about 6.5 watts. HOT receiver. AND, I'm
> doin' the "Zombie Chirp." just like all the other NC20's I have heard.
>
> What WAS the cure for that?
>
> Also, received my internal battery kit for the K2, so will be playing radios
> when I am off.
>
> Unfortunately, I must work for QRPTTF. :-(
>
>
>
> ---
>
> /_ \ /_ \ /_ \ /_ \ John L. Sielke n4js@pobox.com n4js@qsl.net
> (N)(4)(J)(S) NJ Grid:FM29LN <http://www.qsl.net/n4js>
> _ / _ / _ / _ / NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
> G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781
>

Date: 19 Apr 1999 18:53:34 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
To: hhurst@delaware.infi.net
Cc: qrp-l;;
Subject: [38509] Re: RF Power Measurement
Message-ID: <1999Apr19.185334-0400@[130.113.234.7]>

In <000901be8ab2\$faf40360\$950d010a@wil-support1.WILMINGTON.GCI>, Harry T. Hurst wrote:

>I have a dummy load with a 1n34 type output for voltage measurement across
>the load. I've been using $(.707 \times e^2)/R$ to calculate my output power.
>Recently I've seen the same calculation using 1.414 instead of .707. (I may
>be mistaken about the exact number, but it was > 1)
>
>As a math impaired person, I'm wondering which is correct.

Harry,

Yer almost right,,,, $P = (0.707 \times V_{peak})^2 / 50$

You gotta multiply the measured voltage by 0.707 *first*, then square the result.

Actually, there's an easier way, that gives the same result....

Just square the peak voltage and divide by twice the load resistance..
 $P = V_{\text{peak}}^2 / 100$

I'm assuming that you've got a small filter capacitor from your diode's cathode to the dummy load ground. This is connected so that your DC multimeter reads the capacitor's DC voltage. The capacitor is charged by the diode.

The circuit is actually kinda complex(!?). If you don't include the capacitor and diode RIGHT AT THE DUMMY LOAD, you can get some strange results, and the above formulas won't quite work. For instance, if you just use a diode, with no filtering capacitor, your meter tends to read AVERAGE RECTIFIED voltage, which can be a fair bit lower than PEAK voltage. Depends on how much inductance and capacitance and resistance your meter (and leads) have.

Add the capacitor (about 1000pf), then your meter reads PEAK voltage properly.

There's a more complete discussion of these RF voltage and RF current measuring circuits at:

<http://epic.mcmaster.ca/~elmer101/rfpower/rfpower.html>

End of QRP-L Digest 1431

